

# FutureAccess™ Type-C

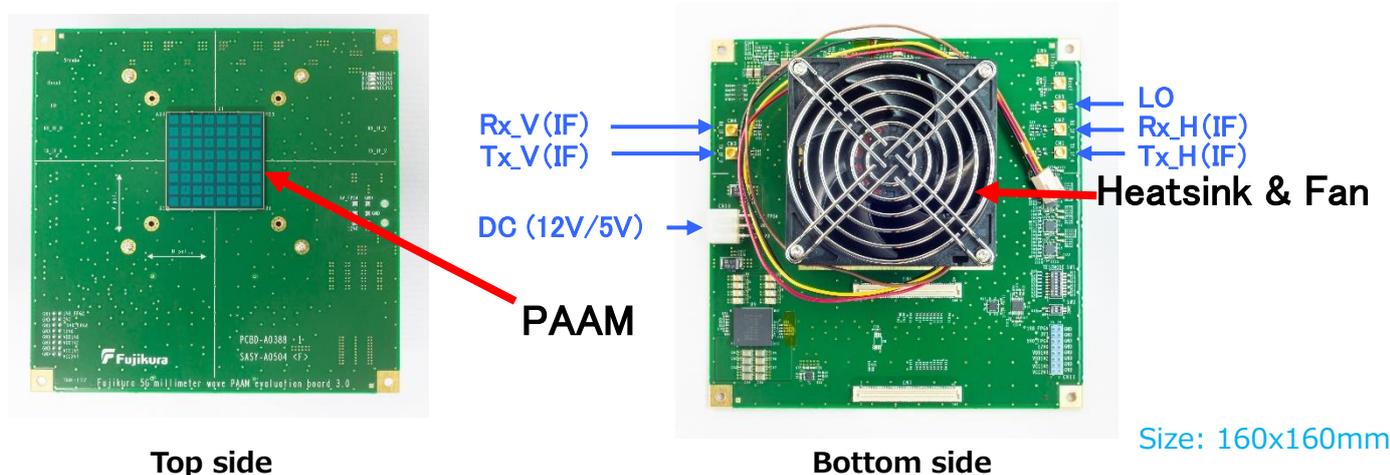
28 GHz Phased Array Antenna Module (PAAM)  
Evaluation Board Kit

## Overview

PAAM Evaluation Board Kit is for performance evaluation of PAAM using external measuring instruments. This board kit consists of PAAM Evaluation Board and Avnet FPGA board MicroZed™ to control PAAM. You can evaluate RF performance of PAAM such as EIRP, EVM and so on by connecting this board kit to a signal source and signal analyzer.

\*Manufactured by AMD

## External view



Top side

Bottom side

Evaluation board equipped with PAAM “FutureAccess™” Type-C

## Features

- Calibration-free; precise beam control without gain/phase calibration
- Quick and easy evaluation by connecting IF input/output signals and LO input signal
- Complete RF functionality implemented in PAAM; BFIC, FCIC, patch antenna, filter
- Simple PAAM operation using PC via on-board FPGA

## Applications

- 5G NR Mobile Base Station
- Fixed Wireless Access / Wireless Backhaul
- Local 5G / Private 5G
- Repeater



## Typical Performance

Frequency range	24.25 to 29.50 GHz
Band	n257/n258/n261
Polarization	Horizontal, Vertical
Number of beam	2T2R / unit
Beam steering range	Elevation: +/-60° Azimuth : +/-60
EIRP at EVM 3%	48 dBm
Beam states	>20,000
Beam switching periodicity*1	<220 ns
Power consumption*2	Tx: 36 W , Rx: 15W Dual polarization enabled
Noise Figure	5 dB
Supply voltage	5V/12V

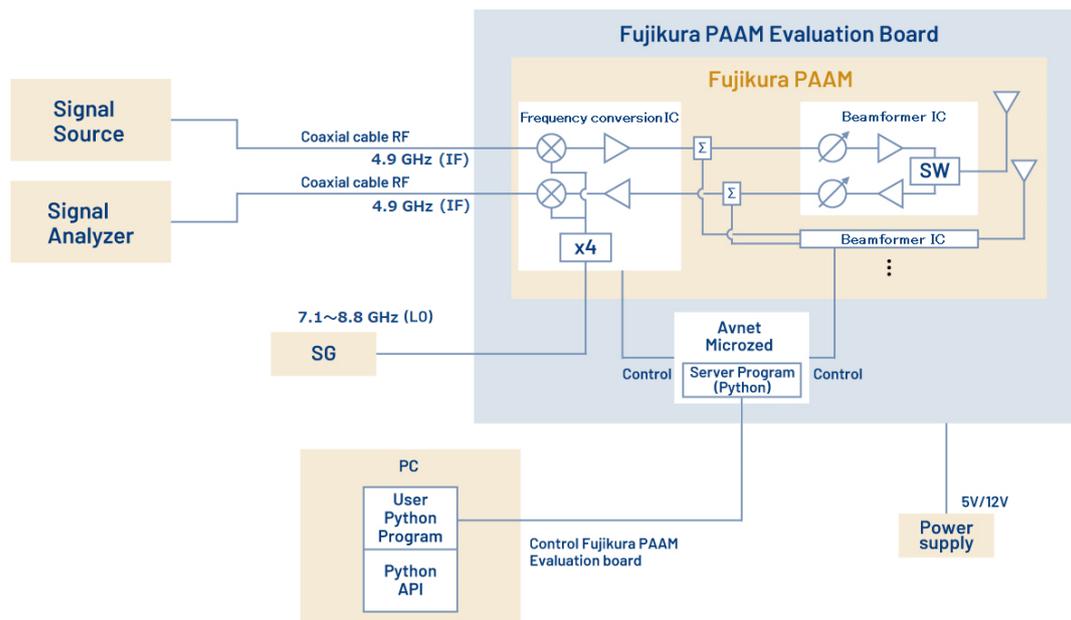
\*1 including command transaction time

\*2 PAAM Only

## Part number (Evaluation board kit)

Part number	Description
FA28PMD88C-F5-EVB	Fujikura PAAM Evaluation Board Kit - 26.50 - 29.50 GHz
FA28PMD88C-F6-EVB	Fujikura PAAM Evaluation Board Kit - 24.25 - 27.50 GHz

## Block diagram



Please note that Evaluation board includes only blue block.

## Board Kit includes

- PAAM Evaluation Board
- Power supply cable (for Eval-board, cooling fan)
- Instruction manual (hardware, software)
- FPGA board Microzed™
- Fixture
- Coaxial cable RF x 5

## Board Kit doesn't include

- IF Amplifier
- Power supply (DC:12V/3A, 5V/2A)
- Signal Source, Signal Analyzer, SG
- PC, LAN cable, Switching HUB

## Contact Information

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### Note;

- The values on the table shown above are preliminary, not guaranteed.
- Please refer to the PRODUCT WARRANTY (MW96-11-22-0044) for more detail.
- All contents in this brief are subject to change without any notice.

